LORD KAVI, University of Ottawa
3-independence number of graphs
We present a spectral bound on the 3-independence number of graphs and apply this bound to well-known families of graphs. We investigate tightness of this bound on the Hamming graph $H(d, q)$. In particular, we give a construction of 3-independent sets in $H(d, 2)$ and show tightness of the bound for $d=2^{r}$ and $d=2^{r}-1$ with $r \in \mathbb{Z}^{+}$.

